



June 13, 2018

1516 Ninth Street
Art Rosenfeld Hearing Room – First Floor
Sacramento, California 95814

10 a.m.

(Wheelchair Accessible)

THE COMMISSION WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:

1. **CONSENT CALENDAR.** (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. **HUMBOLDT BAY GENERATING STATION (06-AFC-07C).** Proposed order approving Pacific Gas and Electric Company's June 6, 2016, Petition for Amendment for the Humboldt Bay Generating Station (HBGS) to conform certain Air Quality Conditions of Certification to changes in the Title V Operating Permit issued by the North Coast Unified Air Quality Management District. The HBGS is an operational 163-megawatt (MW) generating facility located in Eureka, California. Energy Commission staff published an analysis of the proposed changes on May 2, 2018, concluding that the changes would not result in any significant environmental impacts, with no changes in emission limits, and would conform to all local, state, and federal laws, ordinances, regulations, and standards. Contact: Keith Winstead.
2. **APPROVAL OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU.** Proposed resolution approving National Environmental Balancing Bureau's (NEBB) proposed Nonresidential Mechanical Acceptance Test Technician Certification Provider (ATTCP) updates for the 2016 *Building Energy Efficiency Standards* (Energy Standards). This will allow NEBB to administer its proposed program changes and training curricula adjustments for the 2016 Energy Standards. Contact: Joe Loyer. (Staff presentation: 5 minutes)
3. **APPROVAL OF THE NATIONAL ENERGY MANAGEMENT INSTITUTE COMMITTEE.** Proposed resolution approving National Energy Management Institute Committee's (NEMIC) proposed Nonresidential Mechanical ATTCP updates for the Energy Standards. This will allow NEMIC to administer its proposed program changes and training curricula adjustments for the 2016 Energy Standards. Contact: Joe Loyer. (Staff presentation: 5 minutes)
4. **MARIN COUNTY.** Proposed resolution finding that Marin County's locally adopted building energy standards will require equal or greater energy efficiency than the 2016 Energy Standards. All new single-family residences less than 4,000 square feet will be required to be all electric, or if mixed fuel to reduce energy consumption by 15 percent, or 20 percent below the 2016 Standards if a photovoltaic system is included. New low-rise

- multifamily residential will be required to be all electric, or to reduce energy consumption by 10 percent, or 15 percent if a photovoltaic system is included. New high-rise multifamily residential and new nonresidential construction will be required to be all electric or to reduce energy consumption by 10 percent. Contact: Ingrid Neumann. (Staff presentation: 5 minutes)
5. UNIVERSITY ENTERPRISES, INC. Proposed resolution approving Agreement 150-18-001 with University Enterprises, Inc., for a contract of three years totalling \$675,000 (\$225,000/fiscal year) to purchase and test appliances to determine compliance with Title 20 energy efficiency standards. Section 1608(d) of the Appliance Efficiency Regulations requires the Energy Commission to periodically test appliances sold in California to determine compliance with reported efficiency performance, marking, and design standards. Testing results are used to support enforcement actions and general data collection purposes. (AEES Funding) Contact: Maunee Berenstein. (Staff presentation: 5 minutes)
 6. DEPARTMENT OF CONSERVATION–DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES. Proposed resolution approving Agreement 500-17-004 with the Department of Conservation's Division of Oil, Gas, and Geothermal Resources for a \$74,756 contract to support the Geothermal Grant and Loan Program by identifying and inspecting geothermal wells eligible for plugging and abandonment. The Division will create a package with a detailed plugging and abandonment plan for each of the identified unused geothermal wells. (GRDA funding) Contact: Elisabeth de Jong. (Staff presentation: 5 minutes)
 7. THE CITY OF WEED. Proposed resolution approving Agreement 008-17-ECD with the City of Weed for a \$1,560,277 loan at 1 percent interest for four separate fixed axis ground-mounted photovoltaic systems equaling 222.18 kW and producing approximately 358,486 kWh of electricity and \$44,764 in annual savings. The projects also include reduction of window infiltration, lighting, lighting controls, and HVAC upgrades in the city's municipal buildings. The entire project is estimated to save 609,712 kWh in electricity resulting energy cost savings of \$96,020 annually. Based on the loan amount, the simple payback is 16.25 years meeting the ECAA 1 percent interest program funding requirements. (ECAA funding) Contact: Nelson Peña. (Staff presentation: 5 minutes)
 8. COUNTY OF SAN DIEGO. Proposed resolution approving Agreement 007-17-ECD with county of San Diego for a \$261,392 loan at 1 percent interest to install demand controlled ventilation and more efficient interior lights and exterior lights. Annually, the project will save 537,226 kilowatt hours and reduce utility bills by \$75,749. Based on the loan amount, the simple payback will be 3.5 years. (ECAA funding) Contact: Monica Rudman. (Staff presentation: 5 minutes)
 9. ALLIANCE FOR SUSTAINABLE ENERGY, LLC. Proposed resolution approving Agreement 600-17-007 with the Alliance for Sustainable Energy, LLC, Manager and Operator of the National Renewable Energy Laboratory in the amount of \$100,000 to provide technical research related to hydrogen infrastructure, as well as to verify solutions to problems impacting the hydrogen industry. This agreement leverages \$760,000 in federal and other funding. (ARFVTP Funding) Contact: Jane Berner. (Staff presentation: 5 minutes)
 10. DOE - LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement 600-17-010 with U.S. Department of Energy's Lawrence Berkeley National Laboratory for a \$100,000 contract to analyze use of the MyGreenCar application in California. MyGreenCar will use driver trip information to predict energy

- use and costs to potential new car buyers to reduce driver uncertainties with plug-in electric vehicle use. (ARFVTP funding) Contact: Noel Crisostomo. (Staff presentation: 5 minutes)
11. STRATOSFUEL, INC. Proposed resolution approving ARV-17-050 with StratosFuel, Inc. for a \$3,965,665 grant to build a 5,000 kilogram per day electrolysis plant in Moreno Valley, CA. The facility will produce and supply 100 percent renewable hydrogen fuel to California's network of public hydrogen refueling stations. (ARFVTP funding) Contact: Matthew Ong. (Staff presentation: 5 minutes)
 12. CONTRA COSTA TRANSPORTATION AUTHORITY. Proposed resolution approving Agreement ARV-17-051 with Contra Costa Transportation Authority for a \$200,000 grant to develop an electric vehicle readiness blueprint which will provide a comprehensive strategy for responsible, replicable and responsive acceleration to a zero-emissions mobility community. (ARFVTP funding) Contact: Shaun Ransom. (Staff presentation: 5 minutes)
 13. CALIFORNIA HOMEBUILDING FOUNDATION. Proposed resolution adopting CEQA findings for California Homebuilding Foundation's Zero Energy Residential Optimization - Community Achievement Project new demonstration sites at the Hillside and Highlands housing developments in the city of Clovis, and approving Amendment 3 to grant EPC-15-042 with California Homebuilding Foundation. (EPIC Funding) Contact: Brad Williams. (Staff presentation: 5 minutes)
 - a. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS. Findings that, based on the lead agency City of Clovis' Final Environmental Impact Report and supplement thereto, Mitigated Negative Declaration, mitigation monitoring plan, and adoption of a statement of overriding considerations, the work under the proposed project's new demonstration sites at the Hillside and Highlands housing developments in the city of Clovis presents no new significant or substantially more severe environmental impacts beyond those already considered and mitigated, and adopting a statement of overriding considerations.
 - b. CALIFORNIA HOMEBUILDING FOUNDATION'S ZERO ENERGY RESIDENTIAL OPTIMIZATION – COMMUNITY ACHIEVEMENT PROJECT. Approving Amendment EPC-15-042-03 with California Homebuilding Foundation, as part of the original grant amount of \$4,819,805, to fund a community-scale demonstration of cost-effective Zero Net Energy (ZNE) construction for a subdivision of single-family homes in the city of Clovis. The project will identify, develop and demonstrate cost-effective ZNE designs and will evaluate actual energy savings, costs, behavioral aspects, and indoor air quality in these homes.
 14. PROGRAMMATIC APPROACH TO EXISTING BUILDINGS RESEARCH, DEVELOPMENT AND DEMONSTRATION PROGRAM, GFO-17-304. This solicitation sought proposals to establish comprehensive research and development programs aimed at doubling the efficiency of existing buildings by 2030. The tasks for these programs will span the full innovation pipeline—from technology improvements and strategy development (applied research and development) to customer demonstrations (technology demonstration and deployment), to addressing market barriers (technology transfer). (EPIC funding) Contact: Joseph Sit. (Staff presentation: 5 minutes)
 - a. PROSPECT SILICON VALLEY. Proposed resolution approving Agreement EPC-17-040 with Prospect Silicon Valley for a \$7,204,308 grant to develop and demonstrate standardized energy efficiency retrofit packages, specifically geared

towards the low-income multifamily housing market, and that can be scaled to drive down costs. This project will include development of a business model to overcome financing challenges.

- b. INTECH ENERGY, INC. Proposed resolution approving Agreement EPC-17-044 with InTech Energy, Inc., for a \$7,199,315 grant to develop and demonstrate the effectiveness of a market-driven building energy efficiency delivery process that aims to increase the deployment of advanced energy efficiency retrofits in commercial buildings at a reduced cost. This delivery process will be demonstrated in Southern California using advanced technologies and innovative retrofit approaches.
15. DEMONSTRATE BUSINESS CASE FOR ADVANCED MICROGRIDS IN SUPPORT OF CALIFORNIA'S ENERGY AND GHG POLICIES, GFO-17-302. This solicitation sought proposals to fund technology demonstration and deployment projects that meet S14 Strategic Objective - Take Microgrids to the Next Level: Maximize the Value to Customers as defined in the *2015-2017 Triennial EPIC Investment Plan*. (EPIC funding) Contact: Mike Gravely. (Staff presentation: 5 minutes)
- a. SONOMA COUNTY JUNIOR COLLEGE DISTRICT. Proposed resolution approving Agreement EPC-17-053 with Sonoma County Junior College District for a \$4,999,005 grant to develop a microgrid demonstration project at the Santa Rosa Junior College campus. This project plans to meet 40 percent of the campus electricity requirement with emissions-free photovoltaic solar power, to reduce the campus's peak load, optimize energy use, provide support services to the surrounding grid, and create a highly resilient power system by allowing the campus to provide emergency services in the event of an outage in the surrounding grid.
 - b. HUMBOLDT STATE UNIVERSITY SPONSORED PROGRAMS FOUNDATION. Proposed resolution adopting CEQA findings for the Humboldt State University Sponsored Programs Foundation's Redwood Coast Airport Renewable Microgrid Project, and approving Agreement EPC-17-055 with Humboldt State University Sponsored Programs Foundation.
 - i. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS. Findings based on the lead agency County of Humboldt's Initial Study, Mitigated Negative Declaration, Mitigation Monitoring and Reporting Program, resolution adopting the aforementioned documents and filed Notice of Determination, that work under the proposed project presents no new significant or substantially more severe environmental impacts beyond those already considered and mitigated.
 - ii. REDWOOD COAST AIRPORT MICROGRID PROJECT. Approving Agreement EPC-17-055 with Humboldt State University Sponsored Programs Foundation for a \$5 million grant to fund a community scale renewable energy microgrid located at the Redwood Coast Humboldt County Airport. It will demonstrate the first multi-customer, front-of-the-meter microgrid with renewable energy generation owned by a Community Choice Aggregation (CCA) and the microgrid circuit owned by an investor owned utility (IOU). This microgrid will allow the CCA to participate in the California Independent System Operator (CAISO) wholesale electricity market and provide low carbon resilience to a commercial airport and U.S. Coast Guard Air Station,

which are critical emergency facilities in Humboldt County. The Humboldt State University Sponsored Programs Foundation is providing \$6,322,728 in match funding.

16. **Minutes:** Possible approval of the May 9, 2018, Business Meeting minutes.
17. **Lead Commissioner or Presiding Member Reports.** A Lead Commissioner on a policy matter may report to the Commission on the matter and discussion may follow. A Presiding Member on a delegated committee may report to the Commission on the matter and discussion may follow.
18. **Chief Counsel's Report:** Pursuant to Government Code section 11126(e), the Energy Commission may adjourn to closed session with its legal counsel to discuss any of the following matters to which the Energy Commission is a party:
 - a. *In the Matter of U.S. Department of Energy (High Level Waste Repository), (Atomic Safety Licensing Board, CAB-04, 63-001-HLW); State of California v. United States Department of Energy* (9th Cir. Docket No. 09-71014).
 - b. *Communities for a Better Environment and Center for Biological Diversity v. Energy Resources Conservation and Development Commission, and California State Controller* (Alameda County Superior Court, Case No. RG13681262).
 - c. *Energy Commission v. Electricore, Inc. and ZeroTruck* (Sacramento County Superior Court #34-2016-00204586).
 - d. *Energy Commission v. United States Department of Energy* (Federal District Court, Northern District of California, #17-cv-03404).
 - e. *City of Los Angeles, acting by and through, its Department of Water and Power v. Energy Commission* (Los Angeles Superior Court, Case No. BS171477).
 - f. *Energy Commission v. City of San Jose, JUM Global, L.L.C.* (Sacramento Superior Court, Case No. 34-2018-00230652).

Pursuant to Government Code section 11126(e), the Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the Commission, which might include:

- a. The licensing process for a nuclear waste storage repository at Yucca Mountain, Nevada.
 - b. The U.S. Department of Energy's missed deadlines to review current energy conservation standards and failure to complete required analyses concerning certain types of appliances.
19. **Executive Director's Report.**
 20. **Public Adviser's Report.**
 21. **Public Comment:** People may speak up to three minutes on any matter concerning the Energy Commission, with the exception of items appearing elsewhere on this agenda or items related to pending adjudicative (certification or enforcement) proceedings.

If you require special accommodations, contact Ponch Jones at 916-654-4425, five days before the meeting.

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Adjournment of Hearings and Meetings: Depending upon time available and the orderly management of proceedings, the Commission may order adjournment (recess or postponement) of any noticed hearing or meeting, to be continued to the next day, another specific date or time, or to the next business meeting, as appropriate. Any such adjournment will be noticed at the time the order of adjournment is made (Government Code §§11128.5, 11129).